

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
08/955,572	10/22/1997	BYOUNG S. KWON	IND4-DI1B 7472		
23643 BARNES & TI	7590 08/24/2007 HORNBURG LLP	EXAM	INER		
11 SOUTH ME	ERIDIAN	LANDSMAN, ROBERT S			
INDIANAPOL	IS, IN 46204		ART UNIT	PAPER NUMBER	
			1647		
			MAIL DATE	DELIVERY MODE	
			08/24/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)	
		08/955,572	KWON, BYOUNG	S.
	Office Action Summary	Examiner	Art Unit	
		Robert Landsman, Ph.D.	1647	
Period fo	- The MAILING DATE of this communication or Reply	appears on the cover sheet wit	th the correspondence ad	ldress
A SHO WHIC - Exten after s - If NO - Failur Any re	DRTENED STATUTORY PERIOD FOR RELIEVER IS LONGER, FROM THE MAILING sions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory per e to reply within the set or extended period for reply will, by streply received by the Office later than three months after the mid patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re- tiod will apply and will expire SIX (6) MONI tute, cause the application to become ABA	CATION. ply be timely filed IHS from the mailing date of this co ANDONED (35 U.S.C. § 133).	
Status				
1)⊠	Responsive to communication(s) filed on 18	3 August 2005.		
2a) <u></u> □	This action is FINAL . 2b)⊠ T	his action is non-final.		
3)	Since this application is in condition for allo	wance except for formal matte	ers, prosecution as to the	e merits is
	closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D.	. 11, 453 O.G. 213.	
Dispositi	on of Claims			
5)□ 6)□ 7)⊠	Claim(s) <u>5,6,24 and 26-31</u> is/are pending in 4a) Of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) <u>5,6,24,26,28,29 and 31</u> is/are rejection is/are objected to. Claim(s) <u>27 and 30</u> is/are objected to. Claim(s) are subject to restriction an	drawn from consideration.		
Applicati	on Papers			
10)	The specification is objected to by the Examember The drawing(s) filed on is/are: a) and a specificant may not request that any objection to Replacement drawing sheet(s) including the core The oath or declaration is objected to by the	accepted or b) objected to be the drawing(s) be held in abeyan rection is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 Cl	
Priority u	ınder 35 U.S.C. § 119			
12) [] a)[Acknowledgment is made of a claim for fore All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But see the attached detailed Office action for a	ents have been received. ents have been received in A priority documents have been reau (PCT Rule 17.2(a)).	pplication No received in this National	Stage
2) Notice 3) Information	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	Paper No(s	iummary (PTO-413) s)/Mail Date nformal Patent Application 	

Application/Control Number: 08/955,572

Art Unit: 1647

DETAILED ACTION

1. Formal Matters

A. Claims 5, 6, 24 and 26-31 are pending and are the subject of this Office Action.

2. Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

A. Claims 5, 6, 24 and 26, 28, 29 and 31 are rejected under 35 U.S.C. 102(e) as being anticipated by Goodwin et al. (US 7,211,259). The claims recite a protein of SEQ ID NO:2, an extracellular domain thereof and compositions comprising the protein. Goodwin teach a protein 100% identical to SEQ ID NO:2 (see Sequence Comparison A below), which comprises the extracellular fragment. Goodwin also teach compositions (claims 1-18). The rejection of claims 27 and 30 are not being maintained since Goodwin et al. do not teach a nucleic acid sequence 100% identical to those of SEQ ID NO:1, 2, 7 or 8 of the instant invention (see Sequence Comparison B below).

Application/Control Number: 08/955,572 Page 3

Art Unit: 1647

SEQUENCE COMPARISON A

```
Sequence 8, Application US/08060843A
  GENERAL INFORMATION:
    \begin{array}{lll} \text{APPLICANT:} & \text{Goodwin, Raymond G.} \\ \text{APPLICANT:} & \text{Smith, Craig A.} \end{array}
    TITLE OF INVENTION: Cytokine Designated 4-1BB Ligand And TITLE OF INVENTION: Human Receptor That Binds Thereto
    NUMBER OF SEQUENCES: 15
    CORRESPONDENCE ADDRESS:
      ADDRESSEE: Kathryn A. Seese, Immunex Corporation
      STREET: 51 University Street
     CITY: Seattle
     STATE: Washington
     COUNTRY: US
     ZIP: 98101
   COMPUTER READABLE FORM:
     MEDIUM TYPE: Floppy disk
      COMPUTER: IBM PC compatible
      OPERATING SYSTEM: PC-DOS/MS-DOS
      SOFTWARE: PatentIn Release #1.0, Version #1.25
   CURRENT APPLICATION DATA:
     APPLICATION NUMBER: US/08/060,843A
      FILING DATE: 19930507
     CLASSIFICATION: 530
    ATTORNEY/AGENT INFORMATION:
     NAME: Seese,, Kathryn A.
      REGISTRATION NUMBER: 32,172
     REFERENCE/DOCKET NUMBER: 2801-A
   TELECOMMUNICATION INFORMATION:
     TELEPHONE: (206) 587-0430
     TELEFAX: (206) 233-0644
 INFORMATION FOR SEQ ID NO: 8:
   SEQUENCE CHARACTERISTICS:
     LENGTH: 255 amino acids
      TYPE: amino acid
      TOPOLOGY: linear
    MOLECULE TYPE: protein
US-08-060-843A-8
                        100.0%; Score 1415; DB 1; Length 255;
  Query Match
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 255; Conservative
                             0; Mismatches
                                               0; Indels
           1 MGNSCYNIVATLLLVLNFERTRSLQDPCSNCPAGTFCDNNRNQICSPCPPNSFSSAGGQR 60
Qу
             1 MGNSCYNIVATLLLVLNFERTRSLQDPCSNCPAGTFCDNNRNQICSPCPPNSFSSAGGQR 60
Db
          61 TCDICRQCKGVFRTRKECSSTSNAECDCTPGFHCLGAGCSMCEQDCKQGQELTKKGCKDC 120
0ν
             61 TCDICRQCKGVFRTRKECSSTSNAECDCTPGFHCLGAGCSMCEQDCKQGQELTKKGCKDC 120
Db
         121 CFGTFNDQKRGICRPWTNCSLDGKSVLVNGTKERDVVCGPSPADLSPGASSVTPPAPARE 180
Qу
             121 CFGTFNDQKRGICRPWTNCSLDGKSVLVNGTKERDVVCGPSPADLSPGASSVTPPAPARE 180
Db
         181 PGHSPQIISFFLALTSTALLFLLFFLTLRFSVVKRGRKKLLYIFKQPFMRPVQTTQEEDG 240
Qу
             181 PGHSPQIISFFLALTSTALLFLLFFLTLRFSVVKRGRKKLLYIFKQPFMRPVQTTQEEDG 240
Db
```

Application/Control Number: 08/955,572

Art Unit: 1647

Qy 241 CSCRFPEEEEGGCEL 255
||||||||||||||
Db 241 CSCRFPEEEEGGCEL 255

SEQUENCE COMPARISON B

Query Ma	atch	Application US/08060843A 99.8%; Score 836.4; DB 1; Length 1415; Similarity 99.9%; Pred. No. 2e-84;	
Matches			0;
Qy	1	AATCAGCTTTGCTAGTATCATACCTGTGCCAGATTTCATCATGGGAAACAGCTGTTACAA 60)
Db	80	AATCAGCTTTGCTAGTATCATACCTGTGCCAGATTTCATCATGGGAAACAGCTGTTACAA 13	9
Qу	61	CATAGTAGCCACTCTGTTGCTGGTCCTCAACTTTGAGAGGACAAGATCATTGCAGGATCC 12	:0
Db	140	CATAGTAGCCACTCTGTTGCTGGTCCTCAACTTTGAGAGGACAAGATCATTGCAGGATCC 19	19
Qy	121	TTGTAGTAACTGCCCAGCTGGTACATTCTGTGATAATAACAGGAATCAGATTTGCAGTCC 18	0
Db	200	TTGTAGTAACTGCCCAGCTGGTACATTCTGTGATAATAACAGGAATCAGATTTGCAGTCC 25	9
Qу	181	CTGTCCTCCAAATAGTTTCTCCAGCGCAGGTGGACAAAGGACCTGTGACATATGCAGGCA 24	0
Db	260	CTGTCCTCCAAATAGTTTCTCCAGCGCAGGTGGACAAAGGACCTGTGACATATGCAGGCA 31	. 9
Qy	241	GTGTAAAGGTGTTTTCAGGACCAGGAAGGAGTGTTCCTCCACCAGCAATGCAGAGTGTGA 3C	0 (
Db	320	GTGTAAAGGTGTTTCAGGACCAGGAAGGAGTGTTCCTCCACCAGCAATGCAGAGTGTGA 37	19
Qy	301	CTGCACTCCAGGGTTTCACTGCCTGGGGGCAGGATGCAGCATGTGTGAACAGGATTGTAA 36	30
Db	380	CTGCACTCCAGGGTTTCACTGCCTGGGGGCAGGATGCAGCATGTGTAACAGGATTGTAA 43	39
Qy	361	ACAAGGTCAAGAACTGACAAAAAAAGGTTGTAAAGACTGTTGCTTTGGGACATTTAACGA 42	20
Db	440	ACAAGGTCAAGAACTGACAAAAAAAGGTTGTAAAGACTGTTGCTTTGGGACATTTAACGA 49	39
Qy	421	TCAGAAACGTGGCATCTGTCGACCCTGGACAAACTGTTCTTTGGATGGA	30
Db	500	TCAGAAACGTGGCATCTGTCGACCCTGGACAAACTGTTCTTTGGATGGA	9
Qу	481	TGTGAATGGGACGAAGGAGGACGTGGTCTGTGGACCATCTCCAGCTGACCTCTCTCC 54	10
Db	560	TGTGAATGGGACGAGGAGGGACGTGGTCTGTGGACCATCTCCA GCCGA CCTCTCTCC 61	. 9
Qy	541	GGGAGCATCCTCTGTGACCCCGCCTGCCCCTGCGAGAGAGCCAGGACACTCTCCGCAGAT 60	0(
Db	620	GGGAGCATCCTCTGTGACCCCGCCTGCCCCTGCGAGAGAGCCAGGACACTCTCCGCAGAT 67	19
QУ	601	CATCTCCTTCTTTCTTGCGCTGACGTCGACTGCGTTGCTCTTCCTGCTGTTCTTCCTCAC 66	50
Db	680	CATCTCCTTCTTTCTTGCGCTGACGTCGACTGCGTTGCTCCTGCTGTTCTTCCTCAC 73	39

Application/Control Number: 08/955,572 Page 5

Art Unit: 1647

Qу	661	GCTCCGTTTCTCTGTTGTTAAACGGGGCAGAAAGAACTCCTGTATATATTCAAACAACC	720
Db	740	GCTCCGTTTCTCTGTTGTTAAACGGGGCAGAAAGAAACTCCTGTATATATTCAAACAACC	799
Qу	721	ATTTATGAGACCAGTACAAACTACTCAAGAGGAAGATGGCTGTAGCTGCCGATTTCCAGA	780
Db	800	ATTTATGAGACCAGTACAAACTACTCAAGAGGAAGATGGCTGTAGCTGCCGATTTCCAGA	859
Qy	781	AGAAGAAGAAGGAGGATGTGAAATGGAAGTCAATAGGGCTGTTGGGACTTT 8	38
Db	860	AGAAGAAGAAGGAGGATGTGAACTGTGAAATGGAAGTCAATAGGGCTGTTGGGACTTT 9	17

3. Conclusion

Claims 27 and 30 would be allowable if rewritten in independent format as product-by-process claims. Currently, These claims are objected to since They depend from rejected claims.

Advisory information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Landsman whose telephone number is (571) 272-0888. The examiner can normally be reached on M-F 10 AM – 7 PM (eastern).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Manjunath Rao at 571-272-0939. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pairdirect.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> ard Robert Landsman, Ph.D. **Primary Examiner**

Art Unit 1647